

CLAIM

1. A fluid control device comprising a rectangular
parallelepipedal body, two main gas inlet-outlet openings
arranged respectively at lengthwise opposite ends of the body,
5 two vent gas inlet-outlet openings similarly arranged and each
spaced apart from the corresponding main gas inlet-outlet
opening widthwise of the body, a main gas channel for causing
the main gas inlet-outlet openings to communicate with each
other therethrough, a vent gas channel for causing the vent
10 gas inlet-outlet openings to communicate with each other
therethrough, a plurality of subgas inlets arranged at one side
of the body at a spacing, shut-off valves arranged in pairs
corresponding to the respective subgas inlets in position and
arranged generally in two rows, first subgas inflow channels
15 extending from the respective subgas inlets to inlet ports of
the respective shut-off valves in the first of the rows, main
channel communication passageways extending from outlet ports
of the respective shut-off valves in the first row to the main
gas channel, second subgas inflow channels extending from the
20 respective subgas inlets to inlet ports of the respective
shut-off valves in the second of the rows, and vent channel
communication passageways extending from outlet ports of the
respective shut-off valves in the second row to the vent gas
channel, different kinds of material gases to be admitted from
25 the respective subgas inlets being feedable to a processing
chamber positioned downstream from the device from an outlet
of the main gas channel upon a suitable changeover, a gas inside
the body being dischargeable through the vent gas channel,
the fluid control device being characterized in that the body

comprises a center channel block and two side channel blocks arranged on the widthwise opposite sides of the center channel block, each of the shut-off valves being removably mounted on both the center channel block and one of the side channel blocks with the inlet port thereof positioned for the center channel block and with the outlet port thereof positioned for the side channel block, the center channel block having Y-shaped channels identical in number with the number of the subgas inlets and each comprising one common channel and two branched channels arranged in a Y shape when seen from the lengthwise direction of the center channel block, the common channel of the Y-shaped channel having an opening serving as the subgas inlet and the branched channels of the Y-shaped channel communicating with the inlet ports of the corresponding pair of shut-off valves to thereby provide the first and second subgas inflow channels, the main gas channel and the main channel communication passageways being formed in one of the side channel blocks, the vent gas channel and the vent channel communication passageways being formed on the other side channel block.